

MUNITIONS-RELATED CLEAN-UP ACTIVITIES

Former National Fireworks Site –
Southern Conservation Commission Area

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TETRA TECH

AGENDA

Work Performed (June – November 2017)

- Release Abatement Measure at the Cold Waste Area and the Former Test Range Berm Area
- Immediate Response Action at the Open Space Disposal Area
- Comprehensive Project File Review for Munitions-Related Information

Additional Scoped and Approved Work (November 2017 – February 2018)

- Additional Munitions Clearance
 - From the Area In Front of the Berm
 - From the Open Space Disposal Area
- Additional Site Characterization to Identify Other Munitions-Impacted Areas
 - LiDAR [Light Detection and Ranging] Survey
 - Analysis of Historical Aerial Photographs
 - Records Review in Conjunction with the Federal Government

Release Abatement Measure - Cold Waste Area

Purpose: To excavate and remove potentially hazardous items and impacted soil from within the fenced area

Activities:

Vegetation removal	Disposal of 467 tons of soil off-site
Soil excavation [740 CY]	Backfilling
Soil screening and debris separation	Surface stabilization
Munitions-related debris removal	Restore fencing
Analytical testing of excavated soil	

Status: Complete

Cold Waste Area – Before / Now



Release Abatement Measure - Former Test Range Berm

Purpose: To excavate and remove potentially hazardous items and impacted soil from within the berm

Activities:

Vegetation removal	Analytical testing of excavated soil / Disposal
Soil excavation [3,300 CY]	Concrete / Timbers / Stump Disposal
Soil screening and debris separation	Asbestos and PCBs testing / Disposal
Munitions item separation/ identification	Geophysical surveys
Hazardous item destruction	Air monitoring checks
Munitions-related debris removal	Backfilling and regrading <i>*ongoing</i>
Range-related debris removal	Area restoration <i>*ongoing</i>

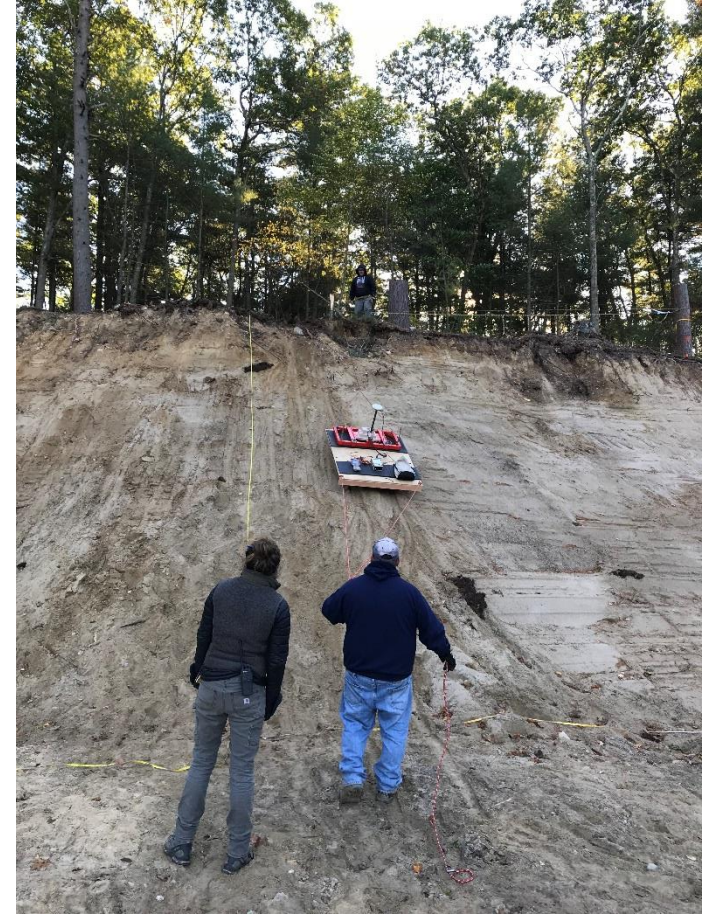
Blue font activities were added in response to what was discovered

Status: Nearly Complete

Former Test Range Berm - Before



Former Test Range Berm – Ongoing



Waste Streams (as of November 1)

Material	Quantity	Disposition
Soil		
- Not Meeting MCP S-1 Standards [but Not HW]	467 Tons	Off-site Re-use as municipal landfill cover
Municipal / Household Trash	2 Tons	Town of Hanover DPW
Tree Stumps	150 Tons	Recycled
Overs (screened rocks greater than ¾ inch)	10 Tons	Recycled
Range-Related Metal and Construction Debris		
- Range-related concrete construction debris	100 Tons	To be Recycled
- Range-related metal debris	10 Tons	To be Recycled
- Range-related timbers construction debris	5 Tons	To be Recycled

NOTE: 4,950 tons of excavated soil met the MCP S-1 (Unrestricted Use) Standards and will be re-used on-site

Range-Related Debris



Immediate Response Action – Open Space Disposal Area Fence

Purpose:	To isolate an area containing incendiary residues and munitions items to reduce the immediate fire hazard and potential risk to public safety	
Activities:	Delineate extent of area [~2/3 acre]	Surveying/Clearing post locations
	Vegetation removal around perimeter	Placement of warning signs
	Emergency Certification from the Conservation Commission	Installation of posts, 6' high chain link fence [700 linear feet], and two gates
Status:	Complete	

Comprehensive Project File Review for Munitions-Related Information

- Purpose:** To develop the best possible understanding of what munitions activities were performed at the Site and where
- Activities:** Document Review
- Re-examined 1996-1997 depositions and interviews associated with the early site fact-finding
 - Re-examined 20 years of project activity summaries and reports
- Additional Visits to Fireworks Museum and Stetson House Museum
- Discussions with Former Facility Workers / Town Residents
- Additional Site Reconnaissance
- Status:** **Complete** (pending discovery of additional military records/new information)

Additional Work Scoped and Approved

Task

Finish Clearance of the Berm and Restore Area

LiDAR Flyover Survey

Historical Aerial Photograph Analysis

Clear Area In Front of the Berm

Military Records Review

Clearance of the Open Space Disposal Area

Scheduled

November - December

November - December

November - December

November - December

December - January

January - February

Please abide by the many warning signs,
fencing, and No Trespassing orders from
the Town Safety Officials –

they are there to protect all of us

Thank You